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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,489	09/29/2005	Robert Bann	ROCKCO P70AUS	4142
20210 DAVIS & BUJ	7590 05/18/200 OLD, P.L.L.C.	7	EXAMINER	
112 PLEASANT STREET			EVANS, GEOFFREY S	
CONCORD, NH 03301			ART UNIT	PAPER NUMBER
			1725	
•		•	MAIL DATE	DELIVERY MODE
			05/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/551,489	BANN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Geoffrey S. Evans	1725		
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on <u>4 May</u> 2a)□ This action is <b>FINAL</b> . 2b)⊠ This     3)□ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 29-38 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 29-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	·		
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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## **DETAILED ACTION**

- The indicated allowability of claims 29-38 in the previous office action is withdrawn in view of the newly discovered reference: Ono in U.S. Patent No. 6,333,572.
   The delay in citation of this reference is regretted.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 29-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hunter et al. in U.S. Patent Application Publication No. 2002/0125231 in view of Ono in U.S. Patent No. 6,333,572. Hunter et al. disclose apparatus for laser micromachining by locating the workpiece on a carrier (stage elements 6,7) that can displace the carrier along a path parallel to an X-axis of a workpiece, a Y axis lying transverse to the path,

focusing an image generated by an output beam from the laser at a working datum position (focal point), defining a plane by the X and Y axis lying substantially perpendicular to the output beam (see paragraph 86, last sentence) and displacing the workpiece along the path by way of the transport mechanism; and maintaining a distance between the datum position and a current first surface position of the workpiece in the vicinity of the datum position (see paragraph 86) and varying the working datum position to accord with local variations in thickness of the workpiece. One teaches supporting a workpiece (wafer) with high speed and precision (see column 3, lines 27-30) by using a fluid cushion (layer; see column 12, lines 10-39). It would have been obvious to adapt Hunter et al. in view of Ono to provide this to support the workpiece with high speed and precision.

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- 5. Applicant's arguments with respect to claims of record have been considered but are moot in view of the new ground(s) of rejection.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Adin et al. in U.S. Patent Application Publication No. 2003/0169524 has a system for levitating and transporting generally planar workpieces such as printed circuit boards. Iwamoto et al. in Japan Patent No. 5-23,880 discloses adjusting the position of the workpiece to focus the laser beam on a desired position on the workpiece. Sadler et al. in U.S. Patent No. 6,483,091 discloses dynamic focus control.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S. Evans whose telephone number is (571)-

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272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571)-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Geoffrey S Evans Primary Examiner Art Unit 1725

GSE